

SOV/127-59-1-13/26

AUTHORS:

Nikolayev, S. I. Kondrat'yev, L. I., and Il'in, A. M., Mining Engineers and Skakun, G. P., Mining Technician

TITLE:

High-Power Mass Blasting in Vysokogorskiy Mine (Massovyy vzryv bol'shoy moshchnosti na Vysokogorskom rudnike)

PERIODICAL:

Gornyy zhurnal 1959, Nr 1, pp 46-50 (USSR)

ABSTRACT:

This is description of high power mass blasting operations in the Vysokogorskiy Mine, located on the eastern slope of the Middle Ural. The yearly production of this mine is 3,000,000 tons of 40% iron ore. A forced level caving system is applied in the mine. The mass blasting operation was carried out in the south butt-end of block # 15 at levels of 90 - 150 m; 179 tons of ammonite were used. There are 3 diagrams, 2 tables

and 1 Soviet reference.

ASSOCIATION:

Gornoye upravleniye Nizhne-Tagil'skogo metallurgicheskogo Kombinata. (The Mining Management of the Nizhniy-Tagil' Metallur-

gical Combine).

Card 1/1

ANDREYEV, Ye.T., kand.tekhn.nauk; KONDRAT'IEV, L.I., inzh.;
VAKHROMOV, P.S., inzh.; BORODIN, N.K., inzh.

Erecting a cruehing and skip hoisting complex at the
"Magnetitovaia-bis" mine. Shakht.stroi. 9 no.11:15-18
N '65. (MIRA 19:1)

1. Trest Sverdlovskshakhtorudstroy.

KANDEL', Ye.A., inzh.; KOMERAT'YEV., L.I., inzh.; BORODIN, N.K., inzh.

Effective use of EDEZ electric detonators. Shakht.stroi.
no.11:27-28 N '59. (MIRA 13:3)

(Mining engineering--Equipment and supplies)

ANDREYEV, Ye.T.; KONDRAT'YEV, L.I.; VAKHROMOV, P.S.; MEDVEDEV, V.V.; SAKANTSEV, Yu.S.

Rapid concreting of underground crushing machine foundations.

Shakht. stroi. 6 no.3:20-23 Mr *62. (MIRA 15:3)

1. Sverdlovskiy gornyy institut (for Andreyev). 2. Trest Sverdlovskshakhtorudstroy (for Kondrat'yev, Vakhromov, Medvedev, Sakantsev).

(Crushing machinery--Foundations) (Concrete construction)

ANDREYEV Ye.T., inzh.; KONDRAT'YEV, L.I., inzh.; BORODIN, N.K., inzh.

Selecting the type of shaft formwork for lining vertical mine shafts. Shakht. stroi. 9 no.2:20-21 F '65. (MIRA 18:4)

1. Sverdlevskiy gornyy institut (for Andreyev). 2. Trest Sverdlevsk-shakttorudstroy (for Kondrat'yev, Borodin).

ANDREYEV, Y-.T., kand.tekhn.nauk; KONDRAT'YEV, I.I., inzh.; BORGDIN, N.K., inzh.; GAYEV, A.Ye., inzh.

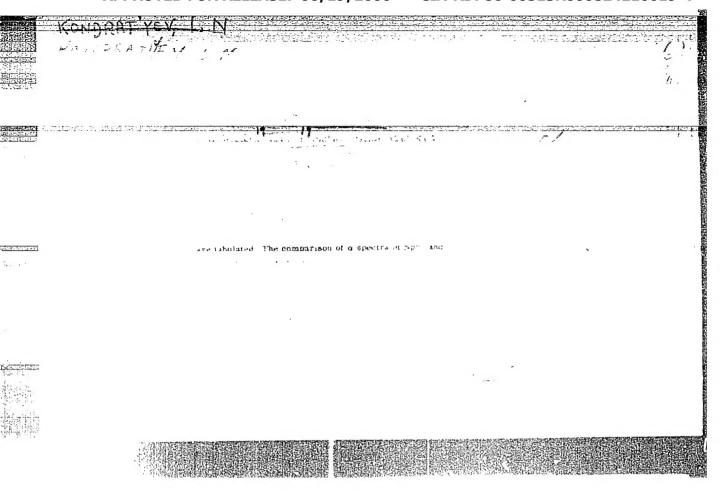
Underground installation of a flue. Prom. strol. 22 no.7:24-25 165. (MIRA 18:8)

KONDRATITEV, L.L.; ZHUKOVA, V.I., ingh., red.; FREGER, D.P., tekhn.red.

[Efficient suspension devices used in electroplating] Batsional'nye konstruktsii podvesok dlia gal'vanopokrytiia detalei. Leningrad, 1956. 1 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listek, no.34. Zashchitnye pokrytiia metallov)

(Electroplating)

(Electroplating)



KONDRAT/EV: L.N.

SUBJECT

USSR / PHYSICS CARD 1 / 2 PA - 1771 KONDRAT'EV, L.H., NOVIKOVA, G.I., SOBOLEV, JU.P., GOL'DIN, L.L.

AUTHOR KONDRAT'EV, L.H., NOVI.
The a-Decay of Pu²⁴⁰.

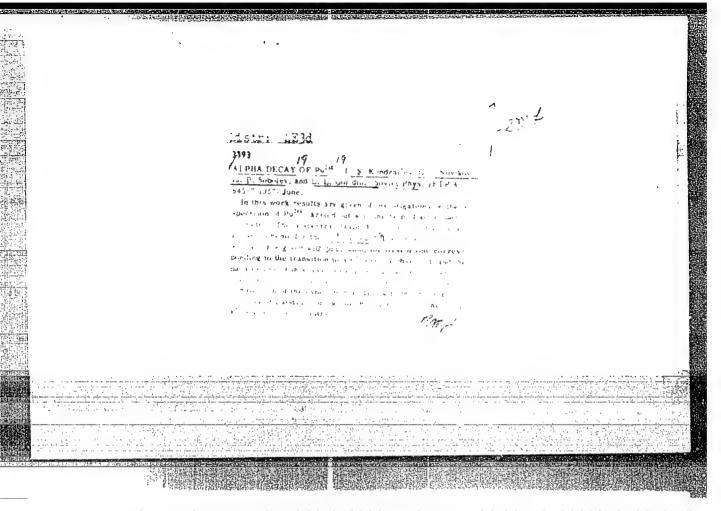
PERIODICAL Zurn. eksp.i teor.fis, 31, fasc. 5,771-774 (1956)

Issued: 1 / 1957

The authors investigated the aspectrum of two plutonium sources within the energy range of from 4.800-5.050 MeV by means of the α -spectrometer of the Academy of Science in the USSR. The results obtained by the experiments which took 2 weeks each, are illustrated in form of a diagram. A line A_1 , which is known from literature, and which is due to the α -decay of Pu^240 on to the level 4+ of the daughter nucleus, is clearly marked. The authors were able to give precise definitions of the parameters obtained for this level. Besides this line A_1 , also the lines A_2 , A_3 , A_4 and A_5 are visible in the spectrum of the source A (12% Pu^239, 88% Pu^240, <0,2% Pu^241, <0,2% Pu^242). In the spectrum of the source B (80% Pu^239, 17% Pu^240, 3% Pu^241, 0,5% Pu^242), apart from the line A_1 also the lines B_4 and B_5 are visible. The last two lines are apparently due to the admixture of Pu^241 and Pu^242 in the source B, but the line B_5 originates from the superposition of the first satellites. A table contains the energies and relative intensities of the α -particles of Pu^241 and Pu^242. The line A_5 apparently belongs neither to Pu^241 nor to Pu^242.

(1956) CARD 2 / 2 000 CIA-RDP86-00543R00082421 ine A₅ belongs to Pu This is all the more natural as the excitation energy of the corresponding level (it is 313 keV) corresponds exactly to the energy of the level 6+. The excitation energy of the level 4+, which was determined from the spectrum, amounts to 147 keV. The energies of the levels 2+,4+,6+ are in the ratio of 1:3,33:7,0, and this is in excellent agreement with experimental data. At present it is still difficult to say anything about the weak lines A2 and A3, they cannot belong to the isotopes Pu239, Pu241 and Pu242. Apparently also these lines are connected with the a-decay of Pu²⁴⁰. They apparently belong to the odd rotation structure, and for their moment of their quantity of motion and for their symmetry the pairs of values 1 - and 3 - are valid. The experimental results obtained by this work are shown in form of a table. The scheme of the α -decay of Pu²⁴⁰ and of the levels of the daughter nucleus U²³⁶ were shown in a table. For the intensities of transitions to the levels 2+, 4+ and 6+ the theoretical ratio : 1: $0.32:1.2.10^{-3}:5.10^{-8}$ is here found. The observed intensity of transition to the level 6+ thus is found to be 800 times higher than the computed intensity.

INSTITUTION:



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824210019-4"

KONDRHT YEV L. N.

48-7-1/21

AUTHORS:

Kondrat'yev, L.N., Novikova, G.I., Dedov, V.B., Gol'din, L.L.

TIPLE:

of -Decay of Pu²³⁸ (of -Raspad Pu²³⁸)

· PERIODICAL:

Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7, pp. 907 - 908 (USSR)

ABSTRACT:

The knowledge of the & -decay intensities on the successive levels which belong to a rotation level permits to draw important conclusions on the formation of the daughter nuclei. The most accurate values of the & -decay intensities can be determined by direct measurement of the & -transitions by means of an

of the intensities by other methods sometimes leads to great errors. The low intensity of the transitions to the levels 4,6 and so on make it necessary to chose comparatively short-lived substances for the investigation by means of an of spectrometer. In this work the highest excited states of rotation of U234 which show themselves in the of decay of Pu238 were investigated, where the investigation was carried out by means of a magnetic of spectrometer of the Academy of Science of the USSR. Pu238 was obtained as a product of the of decay of Cm242 which had

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824210019-4 48-7-1/21

formed upon irradiation of Am²⁴¹ in the flow of slow neutrons. The separation of the elements was performed by the chromatographic method, where a complete separation of plutonium and americium was obtained. Two series of measurements lasting 40 and 110 hours respectively were carried out. The obtained of -spectra are shown in figure 1, where the weak of -line no doubt belongs to Pu²³⁸. The data of all measurements are given in the table. The determined levels fit well into the scheme of rotation which is further explained. The scheme of the levels of U²³⁴ is represented in figure 2. There are 2 figures, 1 table and 4 references, 3 of which are Slavic.

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AUTHOR TITLE NOVIKOVA, G.I., KONDRAT'YEV, L.N., SOBOLEV, Yu.P., GOL'DIN, L.L. 6-5-11/55

The Alpha-Decay of Pu237.
(Alfa-raspad Pu239.- Russian)

PERIODICAL

ABSTRACT

Zhurnal Eksperim. i Teoret. Fisiki 1957, Vol 32, Er 5, pp 1018-1021 (USSR)

First all the paper under review makes reference to some relevant previously published papers and thus outlines the present stage in the investigations with respect to the above problem. The authors investigated the g-spectrum of Pu239 by means of a magnetic α-spectrometer in the energy interval from 4,850 to 5,120 MeV. The first diagram in the paper under review represents the α-spectrum in the energy interval 5,025 - 5,120 MeV. One can see quite distinctly a line that corresponds to the level of 84 keV. A second diagram shows the part of the spectrum situated in the energy interval 4,850-5,080 MeV. With certainty one can see here an a-line corresponding to the level with the excitation energy of 151 keV. The intensity of this transition amounts to (0.013 0.005) \$. The excitation energy of the level with I = 9/2 belonging to the rotational band with K = 1/2 amounts to 153 keV and thus coincides with the energy of the level discovered by the authors of the paper under review. Thus the energies of

CARD 1/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824210019-4

The Alpha-Decay of Pu239.

three levels following each other are in good agreement with the two-parameter formula proposed by A. Bohr (Retational States of Atomic Nuclei, Copenhagen, 1954). Therefore the lowest level actually has the spin 1/2, and it is the first level of the developed system of the rotational levels with K = 1/2. It is possible to compute the main characteristics of the nucleus from the distances between the levels:

 $\frac{1}{2}$ /2J = 6.1 keV, a = -0.276.

The intensities of the transitions to the levels with I=3/2 and I=5/2 differ only little from each other, but they are five to seven times smaller than the intensity of the transition to a level with I=1/2. The intensities of the transitions to the levels with I=7/2 and I=9/2 differ only slightly from each other, but they are several hundred times smaller than the intensities of the transition to the two previous levels. From intensities of the transition to the two previous can be the structure of the doublet the following conclusions can be drawn: The α -particles corresponding to the transition between the basic state of Pu²⁵⁹ and the level 1/2u²⁵⁵ carry away with them the angular momentum 1 = 0. For this reason, the basic state

GOLDIN, L. L., KONDRATYYEV, L. H., NOVIKOVA, G. I., PILIYA, A. D., TER MARTIROSYAN, K. A. (MOSCOW USSR)

"La Disintegration alpha des noyaux non Spheriques."

report presented at the Intl. Congress for Ruclear Interactions (Low Energy) and Ruclear Structure (Intl. Union sum Pure and Applied Physics), Paris, 7-12 July 1958.

KONDRAT YEV, 2.N.

AUTHORS: Kondrat'yev, L. N., Dedov, V. B., Gol'din, L. L. 48-22-2-1/17

TITLE:

The α -Decay of Cm^{242} (α -raspad Cm^{242})

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958, Vol. 22, Nr 2, pp. 99 - 100 (USSR)

ABSTRACT:

The intensity of the α -decay to the second excited level (4⁺) was calculated here and the values of calculation were compared with those of the experiments. The formula by L. D. Landau (Ref 1) and the data of Ref 2 were used for the comparison. It is shown that in Cm242 and Cm244-nuclei an especially strong divergence of the values of calculation with those of the experiments occurs. As the intensity of the ∞ -decay of curium had only been measured once (Refs 5, 6) the authors checked the correctness of these measurements. The work was performed by means of the magnetic ∞ -spectrometer of the AS USSR. A number of photographs with an ex-

posure of up to one week each were made. The energy of the main peak was not measured here. It was assumed as being equal to 6110 keV (Ref 5). The energies of all α -lines were measured with reference to this value. The ∞ -line with

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The \propto -Decay of cm^{242}

48-22-2-1/17

5777 keV is clearly visible in section III of the α -spectrum and is no doubt connected with a Cm²⁴³-admixture. The results of these experiments show that the great divergence between the experimental and the calculated values of the intensity in the case of α -decay to level 4 is entirely real. Within the frame of the existing conceptions this must indicate that in the case of Cm²⁴² the shape of the nucleus can in no case be satisfactorily expressed by the formula

 $r(\vartheta) = r_0 \left[1 + \alpha_2 P_2(\cos \vartheta)\right]$

(Ref 3) and that it is not ellipscidal (Ref 2). The following scientists helped in the work: I. I. Agapkin, V. F. Konyayev, table, and 6 references, 4 of which are Soviet.

AVAILABLE:

Library of Congress

1. Cm^{242} - () Decay-Theory 2. Curium isotopes (Radioactive)

Card 2/2

21(7) AUTHORS:

Tret'yakov, Ye. F.,

SOV/56-36-2-3/63

Kondrat'yev, L. N., Khlebnikov, G. I., Gol'din, L. L.

TITLE:

The Spectrum of Internal Conversion Electrons Accompanying α -Decay of Pu²³⁸ and Pu²⁴⁰ (Spektr elektronov vnutrenney konversii, soprovozhdayushchikh a-raspad Pu²³⁸ i Pu²⁴⁰)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 2, pp 362-366 (USSR)

ABSTRACT:

The investigation of the decay of even-even nonspherical nuclei and of the energy of excited levels, especially the ∝-decay of

Pu 238 and Pu 240 , is of very great theoretical importance. Investigation of the α -decay of these nuclei and of the levels of daughter nuclei occurring in this decay is carried out either by the α -spectrometry method, by that of r-r coincidence, or, as in the present paper, by the analysis of the conversion electron spectrum accompanying this decay. Measurements were carried out by means of a β -spectrometer with toroidal magnetic

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field and lpha-e-coincidence circuit. The method has already been described (Refs 1, 2). Scintillation counters with stilbene

The Spectrum of Internal Conversion Electrons Accompanying \propto -Decay of Pu²³⁸ and Pu²⁴⁰

SOV/56-36-2-3/63

crystals were used for \$\beta\$-counting. Electron energy was determined by comparison with the conversion electron energy of the transitions \$2+\rightarrow 0+\$ (43.5 keV) and \$4+\rightarrow 2+\$ (99.8 keV) in \$U^{234}\$, the daughter nucleus of \$Pu^{238}\$. (These exact data were obtained by Perlman (Perelman)(Ref 3)). For the investigation of the conversion electron spectrum occurring in the \$\pi\$-decay of \$Pu^{238}\$ which therefore supplies data concerning the level of \$U^{234}\$, a source with 1 cm diameter and an intensity of \$40 \text{MC}\$ was used. The results obtained by the investigation are shown by figure 1 (course of the spectrum with assignation of individual peaks), figure 2 (scheme of \$U^{234}\$-levels: 499 keV(8+), 295.9 keV(6+), 143.3 keV(4+), 43.5 keV(2+), containing data from references 3 and 4), and by table 1 (energy of \$U^{234}\$-levels and intensity of \$\pi\$-lines of \$Pu^{238}\$, containing data from references 3, 4, 5). For the investigation of the conversion spectrum of \$Pu^{240}\$

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The Spectrum: of Internal Conversion Electrons
Accompanying & -Decay of Pu²³⁸ and Pu²⁴⁰

SOV/56-36-2-3/63

a source of only 5 \(\mu C \) was used, and the spectrum was investigated within the range of 20 -220 kev. Figure 3 again shows the spectrum, figure 4 the level scheme of U^{236} (daughter nucleus of Pu^{240}): 309 kev (6+), 239 kev (3?), 210 kev (1?), 148.9 kev (4+), 45.3 kev (2+). The lines with (?) are from reference 5, but were also observed by Kondrat'yev et al. (Ref 6). Table 2 shows the intensities of the \(\mu \)-lines (Pu^{240}) and the energies of the U^{236} -levels in comparison with the results obtained by other authors (Refs 3, 6, 7). The authors finally thank G. I. Grishuk, V. F. Konyayev and Yu. N. Chernov for helping to carry out experiments. There are 4 figures, 2 tables, and 7 references, 5 of which are Soviet.

SUBMITTED:

June 14. 1958

Card 3/3

85678

s/056/60/038/006/020/049/XX BOO6/BO70 Landsberg

24.6300 AUTHORS:

Kondrai

Pontekoryo,

Non-radiative Transitions in Heavy M-mesic Atoms Zhurnal eksperimental'noy i teoreticheskoy fiziki; Lebedev,

TITLE:

1960, Vol. 38, No. 6, pp. 1715 - 1719 This paper is concerned with studies of the spectra of X-ray This paper is concerned with studies of the spectra of A-ray photons emitted by mesic atoms of uranium and lead. Since so far only pnotons emitted by mesic atoms of uranium and lead. Since so far of two 2P 15 transition mechanisms in mesic atoms have this work in two 2P 15 transition mechanisms and Auger offert) PERIODICAL: two 2r-> 15 transition mechanisms in mesic atoms have been studied this work is a (emission of meso-X-ray photons, and Auger effect), the properties (emission of meso-A-ray photons, and auger effect), this work is a supplement as well as a contribution to the data on the properties of supplement as well as a contribution to the data on the intro-

supplement as well as a contribution to the data on the properties of heavy nuclei. The experimental arrangement is described in the introduction and school to the data on the properties of the data on the data on the properties of the data on the data on the properties of the data on the data on the properties of the data on the data of the data neavy nuclei. The experimental arrangement is described in the introduction and schematically shown in Fig. 1. A R-beam (270 MeV/c) from the synchropyolotron of OTVoT (Inint Institute of Nuclear Research duction and schematically snown in Fig. 1, A R Deam (2(0 MeV/c) from the synchrocyclotron of Olyal (Joint Institute of Nuclear Research) and the synchrocyclotron of Olyal (Joint Institute of Nuclear Research) and the synchronism on the synchronism of the synch was used. The targets had a thickness of 10.7 g/cm2 for uranium and was used. The targets had a thickness of 10.1 g/cmc for uranium and of 10.3 g/cm2 for lead. A scintillation counter with a photomultiplier

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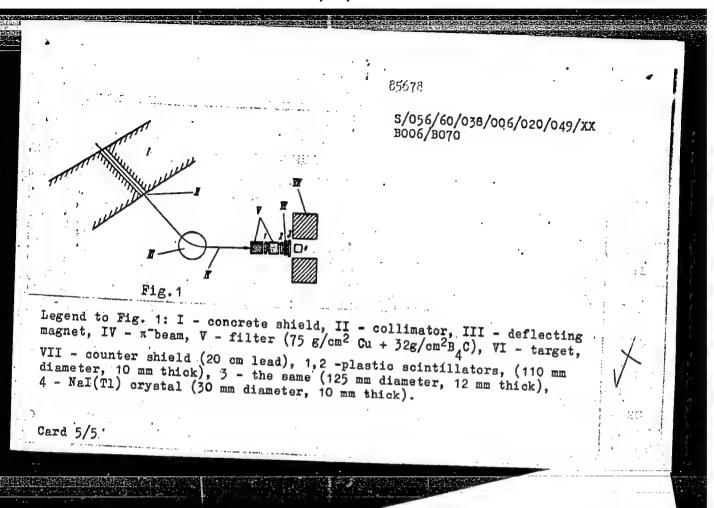
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Non-radiative Transitions in Heavy µ-mesic Atoms

s/056/60/038/006/020/049/XX B006/B070

of the type \$77-33 (FEU-33) served as the gamma quantum detector. The counter pulses were conveyed to a 64-channel pulse-height analyzer. The background of the accidental coincidences amounted to about 5% of the counting rate, A Na24 source (E,= 1.38 and 2.76 Mev) was used for calibration and checking the linearity. The results of measurement for the range 3 - 8 Mev are shown in Fig. 3. Curve I gives the upper limit of the background, II the lower limit for the background of Pb. and III the lower limit for the background of U (n - number of counts per analyzer channel). The spectra are normalized for one and the same 12-mesons stopped in the target. The Pb curve has a clear peak at ~5.3 Mev. On account of the smallness of the NaI (TI) crystal, this peak can be due to three photon energies: 1) E; 2) E -0.5; Mev; 3) E, -1.02 Mev, where E = 6.02 Mev is the energy of the 2P-3 1S transition photons in mesic lead. In the region of the peak (5 - 5.5 Mev), less counts were obtained from uranium than from lead. The mean energy of the peak corresponding to the transition 2P->:S is about 200 kev larger from uranium than from lead. The photon intensity difference at 6 Mev in mesic uranium and mesic lead indicates that a non-radiative



84429 5/056/60/039/004/047/048 B006/B056 N., Landsberg, L. G. The Intensity of Radiationless Transitions in M-Mesic Atoms Pontekorvo, B. Balats, W. Ya., Kondratiyev, Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, yol. 39, No. 4(10), pp. 1168 - 1170 Lebedev, AUTHORS: TEXT: In an earlier paper (Ref. 1) the authors found that the intensity TEXT: In an earlier paper (Ref. 1) the authors found that the intensit 238 normalized to one stopped muon is confident of mesic X-rays 2P - 15 in This fact indicates the existence of radiating siderably less than in Pb. This fact indicates the existence. of mesic X-rays 2P - 1S in U normalized to one stopped muon is considerably less than in Pb. This fact indicates the existence of the 2P - 1S and the stopped muon is considerably less than in Pb. This fact indicates the energy of the 2P - 1S and Biderably less than in Pb. This fact indicates the existence of radiationsiderably less than in Pb. This fact indicates the energy of the 2P - 1S
less transitions in heavy mesic atoms, in which the energy photon. It is assumed transition is not liberated in the form of an X-ray photon. TITLE less transitions in heavy mesic atoms, in which the energy of the 2P - 1S assumed in the form of an X-ray photon. It is assumed transition is not liberated in the form of transition (Wrl) in mesic lead is transition that the probability of radiationless transition (Wrl) in mesic lead is that the probability of radiationless transition (Wrl) is the probability of transition (Wrl) and the probability of transition (Wrl) is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead is the probability of transition (Wrl) in mesic lead in the probability of transition (Wrl) in mesic lead in the probability of transition (Wrl) in mesic lead in the probability of transition (Wrl) in mesic lead in the probability of transition (Wrl) in mesic lead in the probability of transition (Wrl) in the probability of transition (Wrl) in the probability (Wrl) in the probability of transition (Wrl) in the probability (Wrl) in the proba PERIODICAL: negligibly small in comparison to the probability (Why) of a transition with emission of one photon ((Why)Pb 15 transition intensities in the Now, the authors investigated the 2P 15 transition intensities in the Ŀ ta. int μ -. 1 0 + 0.06U Card 1/3 0.15 ± 0.07 -TT + 0.05 Card 2/3 APPROVED FOR RELEASE0406/19/2000 CIA¹RDP86-09513R00082421001 0.23 ± 0.04

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The Intensity of Radiationless Transitions in S/056/60/039/004/047/048 μ -Mesic Atoms S/056/60/039/004/047/048

There are 2 figures, 1 table, and 1 Soviet reference.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint
Institute of Nuclear Research). Institut teoreticheskoy i
eksperimental'noy fiziki AN SSSR (Institute of Theoretical
and Experimental Physics AS USSR)

SUBMITTED: August 13, 1960

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Card 3/3

հվանի 5/048/62/026/012/003/016 B117/B186

24.6800 AUTHORS:

Tret'yakov, Ye. F., Kondrat'yev, L. N., Grishuk, G. I.,

Novikova, G. I., and Gol'din, L. L.

TITLE:

A double, air-core β -spectrometer having a toroidal field

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 12, 1962, 1470-1474

TEXT: A β-spectrometer for investigating modes of decay using a coincidence method is described. Its principle parts are two toroidal coils, each weighing 400 kg, placed one above the other and divided into 4 sections connected in parallel for cooling purposes. For each coil the distance between source and detector is 800 mm. Each coil consists of 600 insulated turns made of 0.7 mm stamped copper, which are assembled in 60 packages. They are symmetrical with respect to the median plane of the coil, connected in series, reinforced and cooled in the middle by 2 mm sheet brass provided with a water-cooled pipe. The dimensions and the resolution of the apparatus are determined by the distance f between the source (detector) and the median plane of the coil, and by the coefficient K Card 1/3

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A double, air-core β-spectrometer ...

from the equation $p(oe\ cm) = 0.2 \times ni\ (A)$, where p is the momentum of electrons to be focused, i the current intensity, and n the number of turns. f = 400, x = 0.8 were chosen as being oftimum values. The goils are contained in an evacuated case carrying counter-turns on the outside to compensate parasitic fields which are set up when current flows through the coil. A vacuum lock in the middle of the case permits installation of sources between the two coils when they are operating independently. Next to the lock there are Wilson seals for the rods connected with exchangeable diaphragms. Adjustable scintillation counters with stilbene crystals, mounted perpendicular to the axis of the apparatus on separate: flanges, serve as detectors. The coils are supplied from two current stabilizers controlled by d-c tube amplifiers. The power supply system makes it possible to maintain a stabilized current of 3 - 70 a for continuous operation at 80 v, or 160 v with the two coils connected in series. Each of the earth's magnetic field components is compensated to 1/50 by 3 threefold coils, connected in series, which are fed by a stabilizer made up of transistors. Debugging the apparatus is very simple; it comes down to checking that the components are accurately made and correctly assembled. With a 4-mm source and a 5-mm diaphragm, one section of the coil has a resolution of 0.45%. With an open diaphragm the Card 2/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824210019-4"

A double, air-core β -spectrometer ...

8/048/62/026/012/005/016 B117/B186

luminous intensity almost attains the geometrical value of 10% of 4x; with 0.45% resolution, it amounts to 2%. The resolution with an open exit diaphragm and a 4-mm source is 1%. The decrease in luminous intensity observed when the resolution is increased is related to the fact that the electrons are deflected in their trajectory by the stray field of the turns when they pass near the sections. The deflection of the trajectory can be partially compensated by switching in the second coil. This was confirmed in the case of a 4-mm source and a 5-mm diaphragm, with the second coil connected in series: the luminous intensity increased 1.5-fold and the conference on Nuclear Spectroscopy held in Leningrad from January 26 to February 2, 1962. There are 4 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki AN SSSR (Institute of Theoretical and Experimental Physics AS USSR)

BEDA, A.G.; KONDRAT'YEY, L.N.; TRET'YAKOV, Ye.F.

Cross section of Callos activation by thermal neutrons.
Atom. energ. 16.mo.2:145-146 F '64. (MIRA 17:3)

ACCESSION NR: AP4042589

8/0056/64/045/006/2241/2242

AUTHORS: Kondrat'yev, L. N.; Tret'yakov, Ye. F.

TITLE: New data on the excited levels of W-182

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 6, 1964, 2241-2242

TOPIC TAGS: tungsten; level transition, beta spectrometry, photoelectron, internal conversion, multipolarity

ABSTRACT: The conversion-electron and photoelectron spectra of w182 were investigated in the toroidal-field iron-free double β spectrometer of ITEF, described elsewhere (Izv. AN SSSR, ser. fiz., v. 26, 1470, 1962). The results are used to compile an excited level scheme for w182. The multipolarities indicated on the level scheme were determined from the ratios of the internal conversion coefficient on different subshells in the case of low-energy transitions, and from the intensities in conversion-electron and photoelectron

ACCESSION NR:

spectra in the case of high-energy transitions. The 892.2-keV transition between the 1222-and 329.6-keV levels was observed experimentally for the first time. The spins and parities of several excited levels of W162 were determined from the multipolarities of the transitions. The results agree with all published data except the 1258-keV level, for which the authors obtain an assignment 3, with the literature data giving either 2 or 1. Orig. art. has: 1 figure.

ASSOCIATION: None

SUPMITTED: 13Aug63

SUB CODE: NP.OP

NR REP SOV: 004

OTHER: 004

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824210019-4

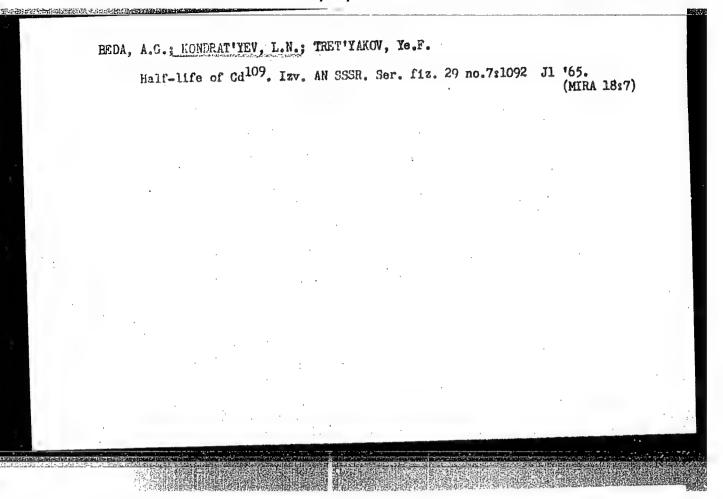
ACCESSION NR: AP4042589

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Spectrum of internal conversion electrons accompanying the of-decay of Fu²³, and the level scheme of U²³. Izv. AN SSSR Ser. fiz. 29 no.2:242-248 F '65.

(MIRA 18:3)

1. nstitut teoreticheskoy i eksperimental'noy fiziki Gosudaretvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR.



ENT(m)/ENP(t)/ENP(b) DIAAP/IJP(c) JD/JG L 1571-66 UR/0056/65/049/001/0007/0009 AP5019208 ACCESSION NR: AUTHOR: Balats, M. Ya.; Karapetyan, V. V.; Kondrat'yev, L. N.; Chukhov, Yu. V. TITLE: Intensity of nonradiative transitions in Ta and Pu239 mesic atoms SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 7-9 TOPIC TAGS: mesic atom, nonradiative transition, tantalum, plutonium, Mu meson, x ray spectrum ABSTRACT: This is a continuation of intensity measurements of nonradiative transitions in a number of heavy elements (ZhETF v. 38, 1715, 1960 and v. 39, 1168, 1960) carried out by means of a scintillation y-spectrometer. The authors investigated the mesic x-ray spectra and have determined the ratio of the intensities of the 2p--ls transitions in Ta and Pu²³⁹ relative to Fb. Some modification was made in the contraction was made in the con the experimental set-up for the measurements with Pu in order to accommodate the large background in the \gamma-spectrometer counter from the natural radioactivity of Pu²³⁹. Preliminary measurements have shown that when the y-detector is loaded by the Pu activity the 7-ray spectrum from the 2p--1s transitions in Fb is displaced towards the hard region by 3--5%, but this shift causes no noticeable error in the experimental results. The fraction of the nonradiative 2p--1s transitions was determined by comparison of the y-spectra obtained with lead and with the materials Card 1/2

KONDRAT'YEV, L.N.; TRET'YAKOV, Ye.F.

Anomalous conversion of the 59.6 Kev. transition in Np²³⁷. Izv. AN SSSR. Ser.fiz. 30 no.1:132-134 Ja '66. (MIRA 19:1)

L 29083-66

ACCESSION NR: AP5019208 UR/0056/65/049/001/0007/0009

AUTHOR: Balats, M. Ya.; Karapetyan, V. V.; Kondrat'yev, L. N.; Obukhov, Yu. V.

TITLE: Intensity of nonradiative transitions in Ta and Pu239 mesic atoms

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 7-9

TOPIC TAGS: mesic atom, nonradiative transition, tantalum, plutonium, Mu meson, x ray spectrum

ABSTRACT: This is a continuation of intensity measurements of nonradiative transitions in a number of heavy elements (ZhETF v. 38, 1715, 1960 and v. 39, 1168, 1960) carried out by means of a scintillation 7-spectrometer. The authors investigated the mesic x-ray spectra and have determined the ratio of the intensities of the 2p--1s transitions in Ta and Pu239 relative to Pb. Some modification was made in to the experimental set-up for the measurements with Pu in order to accommodate the large background in the y-spectrometer counter from the natural radioactivity of Pu²³⁹. Preliminary measurements have shown that when the γ-detector is loaded by the Pu activity the γ-ray spectrum from the 2p--1s transitions in Pb is displaced towards the hard region by 3--5%, but this shift causes no noticeable error in the experimental results. The fraction of the nonradiative 2p--ls transitions was determined by comparison of the 7-spectra obtained with lead and with the materials

Card 1/2

APPROVED FOR RELEASE: 06/19/2000

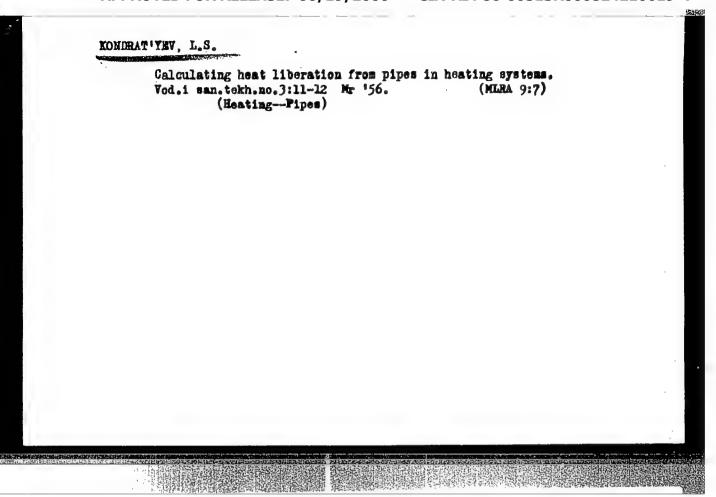
CIA-RDP86-00513R00082421001

The role of a forenan in industry. Leg.prom.15 no.10152-53 0 '55.

(NIBA 9:1)

1.Master satyash.uchastka obuvnoy fabriki no.2 "Proletarskaya pobeda".

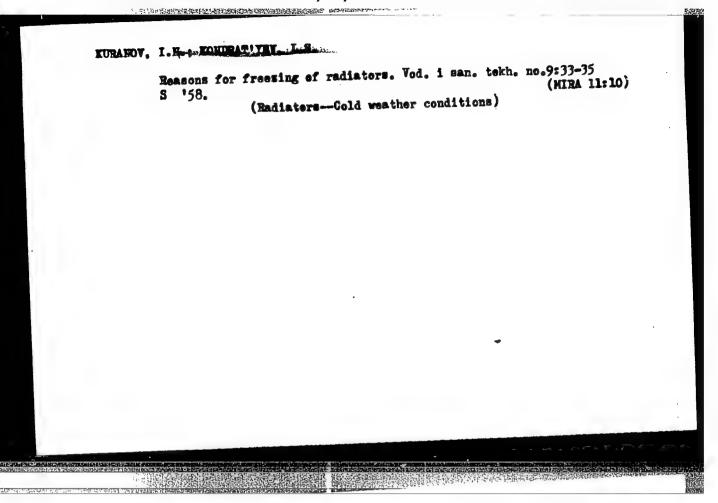
(Shoe industry) (Forenen)

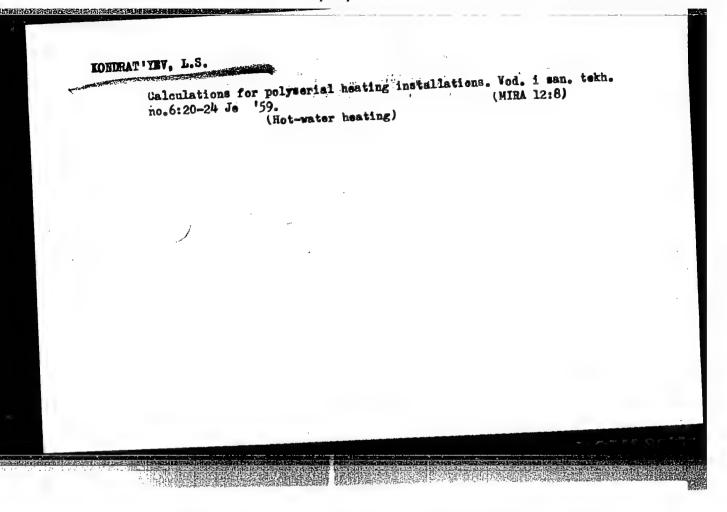


Wondrat Typ, L.S.

Using steam radiators in heating systems. Vod. 1 san. tekh.
no.8:34-35 Ag '56. (MLRA 9:10)

(Radiators)





KONDRAT'YEV, L. T.

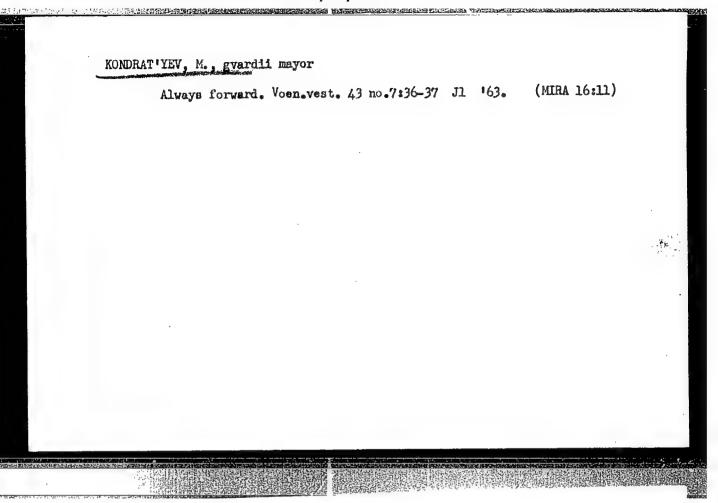
"Laying Telephone Caples by means of a Deep Plow," Vestnik Svyazi, No. 6, (147), p 20, 1952.

Work Specialist, Stavropol Construction-Installation Administration for Radiofication.

Tmanslation- M- 790, 30 Sep, 1955.

EE -2/EMT/d1/EEC(k = 1/EEC-4/EED-2/EMA(c	Fn=1/Po=4/Pq=4/Pq=4/Pae=5/
AUTHOR: Kondrat'yev, L. V. (Moscow)	E
TITIE Behavior of inertial systems of navigation	during high-speed flights
AN SSSR. Izvestiya. Tekhnicheskaya kibe	ernetika, no. 2, 1965, 170+181
many AGS navigation system, inertial navigation	on system
ABSTRACT. The dynamic characteristics of inerticular supersonic- and cosmic-speed flights are theoretical supersonic- and cosmic-speed flights are theoretical supersonic equations of the inertial system, hold coordinates of longitudinal and lateral motions of a supersonic to the variation of the circular velocity possible range. The investigation is extended over exceed the first cosmic speed. The time variation	ographs are obtained of the volved in determining the might remain the hodographs of the motion within the entire in circular flight speeds that
Card 1/2	

CIESSION NR: AP501288	38	<i>?</i>	
(the inertial system at th	e first cosmic speed is	B. Macdonald (JAS Report, paring the results, the behavior considere). Celestial—with a small eccentricity are and 60 formulas	
- [NT]()N: none			
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KONDRAT'YEV, M. A.

Kondrat'yev, M. A. -- "Investigation of the Problems of Rational Placement of Tractor Plows in a Horizontal Plane." Hin Higher Education USSR. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Moscow, 1956. (Disseration For the Degree of Candidate in Technical Sciences).

So: Knizhna/a Letopis', No. 11, 1956, pp 103-11h

SVIESHCHEVSKIY, Bronislav Stanislavovich; ABERKOV, N.S., red.; ANTOHOVSKIY, B.H., red.; BENEVAKOVA, A.V., red.; GLAIKO, V.G., red.; GORGERS, P.Z.; red.; DOKUCHAIRVA, A.P., red.; TRIMEN, A.V., red.; KISKLEV, I.I., red.; KUGANOV, A.B., red.; KUTARIE, N.D., red.; KONTUCEKO, V.A., red.; KURAROW, A.I., red.; RUTYARIE, N.D., red.; GOR'KOVA, Z.D., tekhn. red. [Utilization of tractors and machinery] Expluatatsiia mashinnotraktornogo parka, Isd., perez. Noskva, Gos. izd-vo sel'khoz. 11t-ry, 1958. 660 p. (Agricultural machinery) (Agricultural machinery)

KONDRAT'YEV, M., kand. tekhn. nauk; SERGEYEV, A., kand. tekhn. nauk.

Hammals must be of the best quality. MTS 18 no.8:57-58 Ag '58.

(MIRA 11:9)

KONDRAT'YEV, M.A. kand.tekhn.nauk; ALEKPEROV, D., aspirent

Improving the performance of general purpose plows. Trudy
MIMESKH 6:189-205 '59.

(Plows)

(Plows)

s/0293/63/001/003/0436/0442

ACCESSION NR: AP4009625

AUTHORS: Grigorov, N. L.; Zhuravlev, D. A.; Kondrat'yev, M. A.; Rapoport, I. D.;

Savenko, I. A.

TITLE: Investigation of cosmic radiation beyond the limits of the atmosphere

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 3, 1963, 436-442

TOPIC TAGS: cosmic radiation, extra-atmospheric cosmic radiation, cosmic radiation measurement, cosmic radiation intensity, cosmic particle ionization

ABSTRACT: Tests conductedon the traces of charged particles in an emulsion, subjected to radiation at a height of 306-339 kilometers, showed that the intensity of the recorded radiation was three times that of primary cosmic radiation. Approximately 50% of the excess particles are nonnuclear-active particles with minimal ionization (in all likelihood, these are electrons). The remaining excess particles are highly ionizing and are the products of nuclear splitting. Fig. 1 of the Enclosure indicates the results of tests carried out with counters on the second cosmic ship, as well as the intensity of cosmic radiation measured by A. N. Charakhch'yan and T. N. Charakhch'yan (A. N. Charakhch'yan, T. N. Charakhchiyan. Zh. eksperim. I teoret. fiz., 35, 1088, 1958). It is pointed out Care that, pathough the existence of excess radiation in the form of charged particles

has been noted in a number of papers dealing with radiation studies at heights of 200-300 km, the nature of this radiation and the mechanism of its formation is not yet clear (that is, whether they are protons of the internal radiation belt or whether these excess particles are genetically related to primary cosmic radiation). On the second cosmic ship a photo-emulsion unit was installed, consisting of 489 layers of emulsion NIKFI'R', 10x10 cm², with a layer thickness of 400 microns. Since the emulsion recorded all particles integrally, not discriminating them in terms of time, for purposes of comparison of the emulsion data with the counter-tube data, it was necessary to average the latter for the entire flight time, considering the time the instrument was located at different latitudes and the dependence of radiation intensity on observation site latitude. Emulsion sensitivity was sufficient to provide reliable recording of particles with minimal ionization. The absolute intensity of the particles was determined to ensure that all the particles recorded by the counter-tubes were also recorded by the emulsion. It was found that more than 60% of the emulsion-recorded particles are particles with minimum ionization, while 40% of the particles showed an ionization of g/gmin> 1.4 (g = grain density). The author explained the technique used to determine what part of the high-ionization particles was formed by nuclear splitting. This method was based on the fact that at various heights in the atmosphere streams of high-ionizing particles under various filters and in the air are identical and proportional to the stream of the star-generating and 2/54

component at a given height; that is, to the number of "stars" formed in lcc of emulsion per unit time. In order to determine the number of stars, three observers were used to inspect an emulsion area of 0.072 cc, with a magnification of 450X. Stars were recorded with a number of grey and black traces $N_h \ge 3$. The authors found 2260 + 170 stars/cc/day with Nh > 3; that is, from nuclear splitting one may anticipate $0.25 + 0.04 \text{ particles/cm}^2/\text{sec}$. The author also concluded that protons of the inner radiation belt, incident in an ionization interval 2.4\\\g/gmin<7.8, after passing through the walls of the satellite-ship, may constitute 3 + 4% of all the particles recorded by the counter. By comparing the number of stars with what would normally be expected on the supposition that the excess particles are protons or other nuclear-active particles, generated by primary cosmic radiation in the substance surrounding the emulsion, the author concluded that the relativistic excess particles are high-energy electrons, and are not nuclear-active. The "grey" traces are the product of nuclear splitting (in their overwhelming mass - by protons), and are not protons of the inner belt. This is to be understood in the light of the fact that, in terms of their specific ionization, excess particles at heights of 200-300 km may be divided into two groups: relativistic ($g/g_{min} \le 1.4$) and "grey" ($g/g_{min} > 1.4$), with the relativistic comprising 45%, and the "grey" 55% of all excess particles. Inner belt protons, if indeed they are present among the excess particles within the space ship, constitute not more than 4 ± 6% of all excess particles. Most of the excess particles does not more than 4 ± 6% of all excess particles.

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ACCESSION NR: AP4009625

cles (and possibly all of them) are genetically related to the primary cosmic radiation at the point of observation. The authors express their gratitude to V. V. Bobrovskaya and E. A. Orlova for conducting the tests. Orig. art. has: 5 figures.

ASSOCIATION: none

SUBMITTED: 15Jul63

DATE ACQ: 30Jan64

ENCL: 01

SUB CODE: AS

NO REF SOV: 005

OTHER: 005

SARAPIN, I.G., kand. tekhn. nauk; KONDRAT'YEV, M.I., inzh.

Fixing the duration of the vibration compaction of keramzit concrete mixes during the sasting of products. Stroi. mat.
11 no.4836-37 Ap '65.

(MIRA 18:6)

Containers for multiple use. Mashinostroitel' no.8:36-37 Ag
'62. (Containers)

GORCHAKOV, S.N.; GRAM, I.I., starshiy inshener; KONDRATIYEV, M.S., inshenermekhanik; IVANOVSKIY, H.F.; KOVALEV, M.A., starshiy energetik tresta.

Improving the use and repair of building machinery. Strei.prem.34 ne.6: (MIRA 9:9)

1.Glavnyy mekhanik tresta Zapereshstroy (fer Gerchakev).2.Otdel glavnege mekhanika tresta Vostokneftrestrey (fer Kondrat'yev).3.Glavnyy mekhanik tresta Stal'montash-5 Minstroya SSSR (fer Ivanevskiy).

(Building machinery)

Fiftieth anniversary of the "Farmakon" Plant. Med.prom.12 no.3:37-42
Mr '58.

(LEWINGRAD DRUG INDUSTRY)

(MIRA 11:4)

KONDRAT YEV, M. YA.

112-2-3694

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 171 (USSR)

Kondrat'yev, M. Ya. AUTHOR:

A Simplified Alternating-current Resistance Meter TITLE:

(Uproshchennyy rezistivimetr na peremennom toke)

PERIODICAL: Nauch. raboty stud. Sverdl. gorn. in-t, 1956, sb. 2,

pp. 49-53

Determining the resistivity (R) of a liquid is a matter ABSTRACT:

of measuring the contact resistance (C) to alternating current of two metal electrodes immersed in it. The resistance to be measured is connected in series with the reference resistance and connected to the secondary winding of the vibropack fed by two "CATYPH" type cells. The voltage drops (on the resistance being measured and on the reference resistance) are measured successively with a voltmeter connected across the rectifier bridge.

The resistivity of the liquid is then found from the curves

. Here P is the resistivity of $P = \Phi\left(\frac{n_x}{n_x}\right)$ Card 1/2

CIA-RDP86-00513R000824210019-4 APPROVED FOR RELEASE: 06/19/2000

A Simplified Alternating-current Resistance Meter

the liquid; na and no are the galvanometer readings. Formulas are derived for calculating the curves, and the basic circuit of the instrument is shown. The instrument is equipped with three reference resistances of 5,000, 2,000 and 1,000 ohms. The measurement error does not exceed five per cent. The instrument weighs two kilograms. N.I.V.

Card 2/2

Kielovodek today. Okhr.truda i sots.strakh. 3 no.6:12-15 Je '60. (MIRA 13:7) 1. Sekretar' Kielovodskogo gorkoma kommunisticheskoy partii Sovetskogo Soyusa. (Kielovodsk-Health resports, watering places, etc.)

KONDRAT'YEV, N., inzh.

Small tanks made with sliding formwork. Stroitel' no.11:7, 10 (MIRA 15:1)

(Tanks) (Concrete construction)

sov/44 - 58 - 4 - 3271

Translation from: Referativnyy zhurnal, Matematika, 1958, Nr 4, p 139 (USSR)

AUTHOR: Kondrat'yev, N. A.

TITLE: On the Application in Practice of the Chaplygin Method of the Approximate Integration of an Equation of the First Order (K praktike chaplyginskogo sposoba priblizhennogo integrirovaniya uravneniya pervogo poryadka)

PERIODICAL: Tr. Astrakhansk. tekhn. in-ta rybn. prom-sti i kh-va, 1957, Nr 4, pp 33-43

ABSTRACT: For the determination of the first (initial) approximations in the well-known Chaplygin method, the author proposes the use of initial values. If in the equation y' = f(x, y), f_{yy}^w will preserve the sign in a certain interval, then the given initial value y_0 will be the upper (or lower) bound; there will be another bound $u = y_0 = f(x)$, where f(x) is the solution of the equation f(x) - f(y) = f(x) + f(x) = f(x) = f(x) with given initial values equal to zero. Depending on the sign of f_{yy}^w in the equations "f(x) = f(x) + f(x) = f(x) = f(x) or Card 1/2

30V/44 - 58 - 4 - 3271

" - " is chosen. If the second derivative does not preserve the same sign then only one-sided approximations are obtained.

Ya. I. Alikhashkin

Card 2/2

ZINEVICH. V.D., insh.; KONDRAT'YEV. N.A., insh.; POPOV. Yu.N., insh.

Dynamics of a rock loading machine with vibrator bucket.

Nauch.dokl.vys.shkoly; gor.delo. no.4:207-211 58.

1. Predstavleno kafedroy prikladnoy mekhaniki Leningradskogo gornogo instituta imeni G.V. Plekhanova.

(Mining machinery) (Material handling)

137-58-4-6870

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 79 (USSR)

Kondrat'yev, N.B., Fridlyander, I.N. AUTHORS:

An Investigation of the Decomposition of a Solid Solution of Al-TITLE:

Cu-Mg-Mn Alloys Crystallizing at Various Rate of Cooling (Issledovaniye raspada tverdogo rastvora splavov sistemy Al-Cu-Mg-Mn, kristallizovavshikhsya s raznymi skorostyami okh-

lazhdeniya)

PERIODICAL: V sb. Metallurg. osnovy lit'ya splavov. Moscow, Oborongiz.

1957, pp 380-393

The effect of changes in the rates of crystallization of Al-Cu-ABSTRACT:

Mg-Mn alloys having various amounts of Cu, Mg, and Mn upon the properties of alloys at room and elevated temperatures is investigated. An increase in the rate of crystallization of the alloys results in an increase in strength both at room and at elevated (150°C) temperature. The increase in the strength of alloys crystallizing at high speeds is due primarily to the difference in the properties of the solid solution and the nature of its

breakdown. The difference in microhardness attains a maximum

at 0.6% Mn content and declines when an alloy contains 0.2 and Card 1/2

137-58-4-6870

An Investigation of the Decomposition (cont.)

1.2% Mn. Variation in Mn content has its maximum effect in increasing the difference in strength values relative to rate of crystallization in alloys of the D16 type (with Mg), in which it attains 5-6 kg/mm², and to a lesser degree in alloys of the VD17 type (with Mg), and has practically no effect on alloys of the D20 type (without Mg). To assure maximum high-temperature corrosion resistance in the alloys it is necessary that ingots be crystallized at maximum speed. This is particularly important for alloys of the type of D16.

1. Alloys--Crystallization 2. Alloys--Cooling methods 3. Aluminum --Applications 4. Copper--Applications 5. Magnesium--Applications 6. Manganese--Applications

Card 2/2

KONDRAT'YMV, Wikolay Dmitriyevich; SOLOV'YMV, H.I., redaktor; SRIBMIS, M.V., teknicheskiy redaktor.

[Karl Zedin] Karl Zedin. Moskva, Voen. izd-vo Ministerstva obor. SSSR, 1956. 82 p. (MLRA 9:5) (Zedin, Karl Yanovich, 1885-1919)

KONDRAT'YEV, Nikolay Dmitriyevich; SOlOV'YEV, N.I., red.

Marshall Bliukher. Moskva, Voenizdat, 1965. 292 p.

(MIRA 18:10)

KONDRAT'YEV, Nikolay Fedorovich; MIKHAYLIK, Aleksey Fedoseyevich;

DONSKOY, Ya.Ye., red.; LIMANOVA, M.I., tekhn. red.

[Kharkov in the seven-year plan] Khar'kov v semiletke. Khar'kov,
Khar'kovskoe knizhnoe izd-vo, 1961. 112 p. (MIRA 15:1)

(Kharkov—Economic policy)

ACC NR: AP6035935 INVENTOR: Kondrat'yev, N. G.	SOURCE CODE: UR/0413/66/000/020/0197/0197
SOURCE: Izobreteniya, promys TOPIC TAGS: transducer, acce gear control signal transducer for control craft wheels. In a housing acce od, a yoke, a spring, and a reaking system, as well as other mounted on a bracket in the flywheel; as it rotates, a pens the relay's contact. Or	hlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 197 leration transducer, sincraft component, aircraft landing and the has been issued for an inertial-generator dualing an electromagnetic cock used in the braking of aircre located a flywheel, a flywheel drive shaft, a push mer aircraft control equipment, electromagnetic coils he housing and a permanent ring magnetic is mounted on the current induced in the electromagnet coil's windings rig. art. has: 1 figure.
UB CODE: 01, 09/ SUBM DATE:	15Sep64/
ord 1/1	UDC: 629.135/.138

HALISHEVSKIY, N.O., redaktor; KOLOBKOV, P.S.; KONDRAT'YEV, N.I.; MALOVA, B.M.

[Design and operation of water supply and sewer pumping stations] Proektirovanie i ekspluatatsiia vodoprovodnykh i kanalisatsionnykh nasosnykh stantsii. Pod red. N.G.Malishevskogo. Moskva, Gos. isd. lit. po stroitel'stvu i arkhitekture, 1953, 411 p. (MLRA 7:11D)

Materials on the medico-geographical features of Austria. Geog.

(MIRA 15:1)

sbor. no.14:108-117 '61.

(AUSTRIA MEDICAL GEOGRAPHY) (AUSTRIA PUBLIC HEALTH)

8/3055/63/000/002/0119/0121

AUTHORS: Kapitsa, S. P.; Kondrat'yev, N. I.

TITLE: Broadband panoramic wavemeter

SOURCE: AN SSSR. Fizicheskaya laboratoriya. Elektronika bol'shikh moshchnostey (High-power electronics), no. 2, 1963, 119-121

TOPIC TAGS: wavemeter, parnoramic wavemeter, panoramic broadband wavemeter, wavelength bandwidth, oscilloscope wave display

ABSTRACT: The wavemeter described differs from those hitherto known in that it can be used to observe the spectrum of continuous oscillations at high frequency over a wide range of wavelengths. It is based on a tunable quarter-wave coaxial cavity, the axial conductor of which is moved longitudinally by a motor, so that the effective length of the cavity varies periodically about some average value. The oscilloscope beam is scanned in phase with the tuning

Card 1/2

of the wavemeter and the vertical beam deflection is determined by the detector signal. Consequently, a continuous monochromatic signal is represented in the form of a resonance curve of the coaxial resonator, the position of which on the screen depends on the signal frequency. A wavelength bandwidth up to 12 cm can be accommodated, and the range of measurements is between 5 and 50 cm. The accuracy with which the absolute wavelength is determined is 2--3%, but the relative wavelength can be determined accurate to 0.2%. The use of an induction motor eliminates parasitic pickup at power line frequency and its harmonics. "In conclusion, the authors are grateful to P. L. Kapitsa for interest and support of this work." Orig. art.

ASSOCIATION: Fizicheskaya laboratoriya AN SSSR (Physics Laboratory,

SUBMITTED: 00

DATE ACQ: 25Jan64

NCL: 00

SUB CODE: GE, SD

NR REF SOV: 000

OTHER: OOO

Card 2/2

THE NEET BOAS 000

8/3055/63/000/002/0122/0132

AUTHORS: Kapitsa, S. P.; Kondrat'yev, N. I.; Petrusevich, Yu. M.

TITLE: Microwave measurements with recording on graph paper

SOURCE: AN SSSR. Fizicheskaya laboratoriya. Elektronika bol'shikh moshchnostey (High-power electronics), no. 2, 1963, 122-132

TOPIC TAGS: microwave measurement, microwave measurement plotting, plotting table, resonance curve plotting, broadband wavemeter, field plotting, current voltage characteristic plotting

ABSTRACT: A method is described by which microwave measurements can be plotted on a graph paper automatically for further processing. The microwave measurement procedure used in the laboratory is also described. The key piece of equipment is an automatic plotting table employing some of the drives from an automatic recording potentiometer. The plotting table records the connection between two

Card 1/4

quantities, one of which is varied by rotating a synchronous motor and the other one is varied by the measuring circuit. The uses of the equipment for the plotting of resonance curves, as a broadband wavemeter, for calibration against a heterodyne wavemeter, and for plotting of resonance curves with the aid of a klystron are described. In addition to recording resonance curves, the plotting table can be used to study the distribution of high-frequency fields, to study the current-voltage characteristics, and for many other applications. "The authors are grateful to P. L. Kapitsa for interest in the work and for support." Orig. art. has: 9 figures and 10 formulas.

ASSOCIATION: Fizicheskaya laboratoriya AN SSSR (Physics Laboratory, AN SSSR)

SUBMITTED: 00

DATE ACQ: 25Jan64

ENCL: 02

SUB CODE: EE SD

MR REF SOV- 003

OTHER: 000

Card 2/4

Kondist yeu, N.

AUTHORS: Peshkov, V.P. and Kondrat'yev, N.I. 120-4-34/35
TITIE: A Sylphon McLeod Manometer (Sil'fonnyy manometr Mak-Leoda)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.4, p. 105 (USSR)

The McLeod manometer is the simplest and most convenient absolute manometer. The usual manometer includes a movable ABSTRACT: reservoir or fore-vacuum. This has the undesirable effect of contaminating the capillaries. The movable reservoir is usually connected in by means of a rubber tube. The action of the mercury on the rubber walls results in the formation of a sulphide film which sticks to glass inside the manometer and causes errors of measurement. Manometers with an additional fore-vacuum are contaminated as a result of constant contact of the mercury with the atmosphere.
A new form of the above manometer is described wherein the movable reservoir is replaced by sylphon bellows. All metal parts which are in contact with the mercury are made of steel. Tests on this instrument have shown it to be satisfactory in practice. The bellows can be mounted either vertically or There is 1 figure. horizontally.

ASSOCIATION: The Vavilov Institute for Physical Problems Ac.Sc.USSR Card 1/2

7.192 (CVI) PROMINICATION OF LICENSES PROMINICATION OF THE PROMINICATION

MALISHWSKIY, Nikolay Georgiyevich; KONDRAT'YEV, Mikolay Ivanovich; ALESHKO, Pavel Ivanovich; MALOVA, Nadezhda Mikhaylovna; TRET'YA-KOVA, A.N., red.; TROFINEMKO, A.S., tekhn.red.

[Water-supply and severage pumps and pumping stations] Vodoprovodnys i kanalizatsionnye nasosy i nasosnye stantsiil.Pod red. N.G.Malishevskogo. Khar'kov. Izd-vo Khar'kovskogo gos. univ. im. A.M.Gor'kogo. 1960. 394 p. (MIRA 14:5) (Pumping stations)

DENISOV, Ivan Ivanovich, inzh.-podpolkovnik; KONDRAT'YEV, N.L.,
red.; SLEPTSOVA, Ye.N., tekhn. red.

[Preparing artillery pieces for firing]Podgotovka artilleriiskogo orudiia k strel'be. Moskva, Voenizdat, 1962. 50 p.

(Artillery)

(Artillery)

VORONOV, L.V., podpolkovnik; KONDRAT'YEV, N.L., red.

[Determination of astronomical azimuths] Opredelenie astronomicheskikh azimutov. Moskva, Voenizdat, 1964. lll p. (MIRA 17:9)

DOKUCHAYEV, M.S., polkovnik sapasa; KONDRAT'YEV, N.L., red.; MEDNIKOVA, A.N., tekhn. red.

[Selection and equipping of observation posts and firing positions in the artillery] Wybor i oborudovanie nabliudatel'-nykh punktov i ognevykh pozitsii v artilleria. Moskva, Voenisdat, 1963. 60 p. (MIRA 16:7)

VISHNYAKOV, N.A., polkovník; KONDRAT!YEV, N.L., red.; CHAPAYEVA, R.I., tekhn. red.

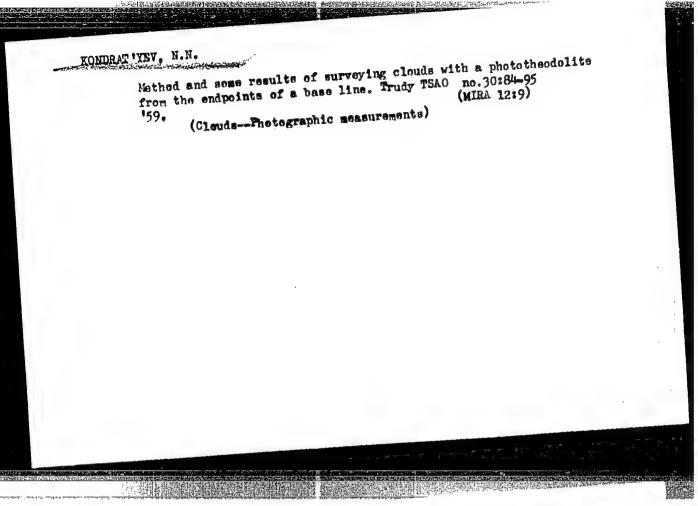
[Training artillery reconnaissance troops]Obuchenie artillerii-skikh razvedchikov. Moskva, Voenizdat, 1962. 94 p.
(MIRA 16:1)
(Artillery-Problems, exercises, etc.)

SOKOLOV, Igor' Aleksandrovich, polkovnik; KHORENKOV, A.V., polkovnik, dots., kand. voyennykh nauk; KONDRAT'YEV, N.L., red.; KUZ'MIN, I.F., tekhn. red.

[Work with a map and an aerial photograph on the ground] Rabota s kartoi i aerosnimkom na mestnosti. Moskva, Voenizdat, 1963. 77 p. (MIRA 17:3)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824210019-4



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824210019-4"

ALEKSANDROVA, G.G.; ZHUKOVA, V.A.; KONDRAT'YEV, N.N.; KUSKOV, V.K.;
MALETS, A.M.; SOLOMONOVA, N.L.; FEDOROVICH, R.M.; VOL'FKOVICH, S.I., akademik, red.; KOROBTSOVA, N.A., red.; YERMAKOV, M.S., tekhn. red.

[Work in technology] Tekhnologicheskie raboty. Moskva, Izdvo Mosk. univ. 1963. 115 p. (Laboratornyi praktikum po khimicheskoi tekhnologii, no.4)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824210019-4 KONDRATIVEV, N.N.

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957,

Nr 2, p.193 (USSR)

Shur, B.I., Kondrattev, N.N. AUTHOR:

An Electrical Device for Counting Finished Parts from Automatic Metal Bar Working Lathes (Elektricheskoye ustroystvo dlya podshcheta obrabotannykh detaley na TITLE: tokarnykh prutkovykh avtomatakh)

PERIODICAL: Vestn. tekhn. inform. M-vo stankostroit. i instrumen.

prom-sti SSSR, 1956, Nr 2, pp.35-36

In order to avoid false readings, the electrical counter circuit of this device can be closed only at the moment when the bar material being worked is pushed against the ABSTRACT:

tool rest which serves as a second electrical contact.

Card 1/1

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KONDRAT'YEV, N.P.; SHTER, B.O.; CHERNYSHOVA, T.Ye.; LANGE, V.I., redaktor; POLOSINA, A.S., tekhnicheskiy redaktor.

[Operation and maintenance of a fleet of automobiles and tractors in the petroleum industry; a collection of articles] Ekspluatatsiia i remont autotraktornogo parka neftianci promyshlennosti; sbornik materialov. [Sost. N.P.Kondrat'ev, B.O. Shter, T.E. Chernyshova] Isd.2-oe, ispr. i dop. Moskva, Gos. nauchno-tekhn.izd-vo neftianci i gorno-toplivnoi lit-ry, 1952. 502 p. (MLRA 8:10)

1. Russia (1923- U.S.S.R.) Ministerstvo meftyanoy promyshlem-nosti.

(Automobiles) (Tractors) (Petroleum industry)

KONDRAT'YEV. N.P.

Results of using remedial gymnastics for pupils of secondary schools. Vop. kur., fizioter. i lech. fiz. kult'. 30 no.3: 251-255. My-Je '65. (MIRA 18:12)

1. Vrachehno-fizkul'turnoye otdeleniye (zav.- N.P. Kondrat'yev)
Ob"yedinennoy polikliniki Ministerstva putey soobshcheniya
(nachal'nik - zasluzhennyy vrach RSFSR A.G. Sarkisov), Moskva.
Submitted February 22, 1962.

KONDRATIVEY, M.P.; SHTER, B.O.; CHERNYSHOVA, T.Ye.; LOZBYAKOVA, Ye.S., vedualichiy redaktor; EHLEBNIKOVA, L.A., tekhnicheskiy redaktor

[Operation and repair of an automobile and tractor fleet of the petroleum industry; a collection of papers] Eksplustatsiis i rement autotraktornogo parks neftianoi promyshlennosti; sbornik materialov. Ind. 3-e, ispr. i dop. Moskva, Gos.nauchno-tekhn. ind-vo neft. i gorno-toplivnoi lit-ry, 1957. 563 p. (MIRA 10:7)

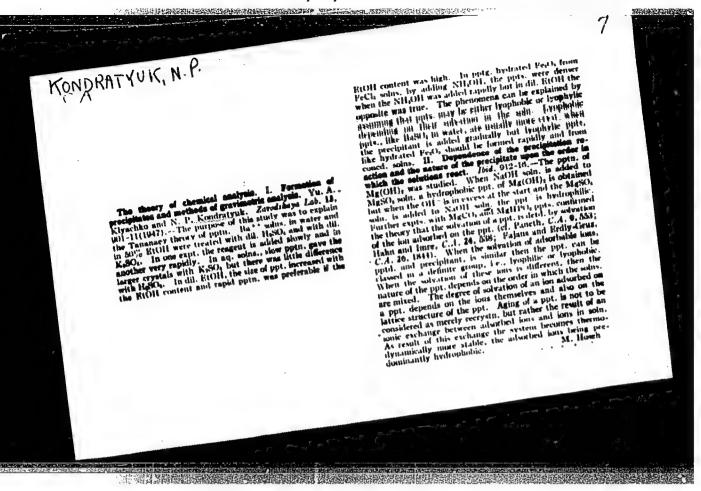
1. Russia (1923- U.S.S.R.) Ministerstvo neftyanoy promyshlen-

(Automobiles -- Maintenance and repair) (Tractors -- Maintenance and repair)

SHTER, B.O.; KONDRAT'YEV, N.P.; LESNIKOVA, Ye.S.; MAKAROV, I.V.; CHENTSHOVA, T.Ye.; SOLGANIK, G.Ya., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Operation and repair of transportation and hoisting machinery of the petroleum and gas industry] Exspluatatia i remont transportnykh sredstv i pod"emykh mashin neftianci i gazovoi promyshlennosti; spravochnik. Moskva, Gostoptekhizdat, 1962. 396 p.

(Gas, Natural—Transportation) (Petroleum—Transportation)

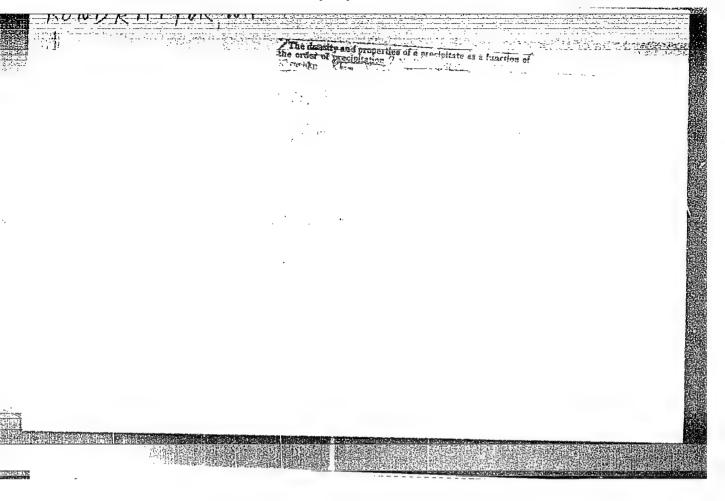


KONDRATYUK, N. P. Rese Cand Chem Sci -- (diss) "Analysis of the process of precipitation and the structure of pseudo-amorphous sediments by using magnesium hydroxide as an example." Mos, 1957.

16 pp 22 cm. (Academy of Sciences USSR. Inst of Geochemistry and Analytic Chemistry) im V.I. Vernadskiy)

(KL, 21-57, 99)

-20-



L 01865-67 EWT(1)/EWP(e)/EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JD/WW/GD

ACC NR: AT6029309

SOURCE CODE: UR/3000/66/000/000/0050/0

AUTHOR: Kondrat'yev, N. S.

ORG: none

TITLE: Heat transfer in the initial section of a tube with movement of mercury in the

SOURCE: Moscow. Energeticheskiy institut. Teploobmen v elementakh energeticheskikh ustanovok (Heat exchange in power installation units). Moscow, Izd-vo Nauka, 1966,

TOPIC TAGS: convective heat transfer, nuclear reactor technology

ABSTRACT: The experimental apparatus is shown in Figure 1. Mercury was fed by gear pump 18 to overflow tank 6, whence it flowed by gravity through experimental tube 4, the pump. The experimental tube 4, made of seamless polished stainless steel with an inside diameter of 5.26 mm and a wall thickness of 0.12 mm, was divided into two sections. The first section, 370 mm long (70 diameters), was unheated and served for hydrodynamic stabilization of the flow of mercury. In the second section, the working section, with a length of 251 mm (L/d), the mercury was heated by condensing steam. The temperatures were measured with thermocouples. The experimental data obtained are

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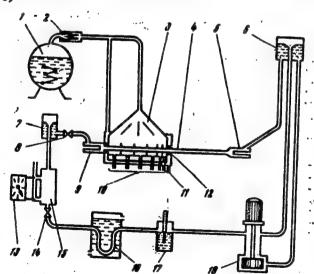
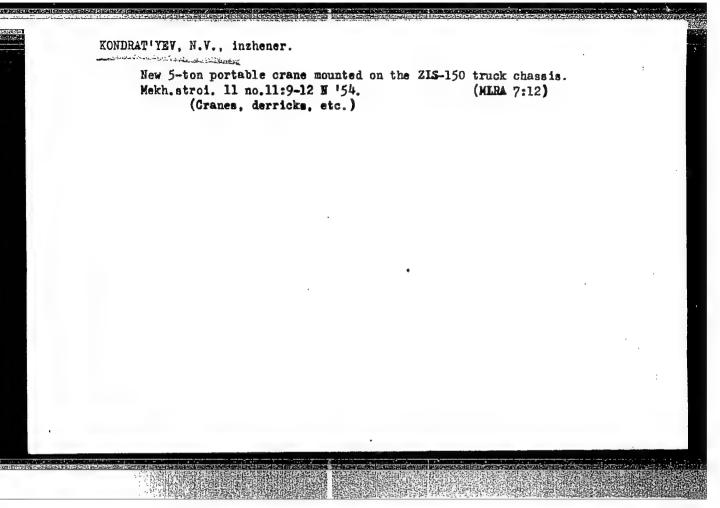


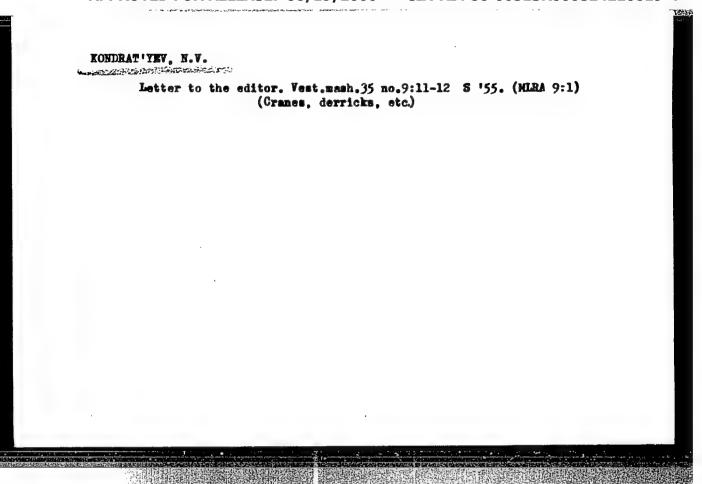
Fig. 1. Diagram of the apparatus

shown in an extensive table. Analysis of the results permits the following conclusions:

1) thermal stabilisation sets in considerably earlier than with ordinary heat transfer

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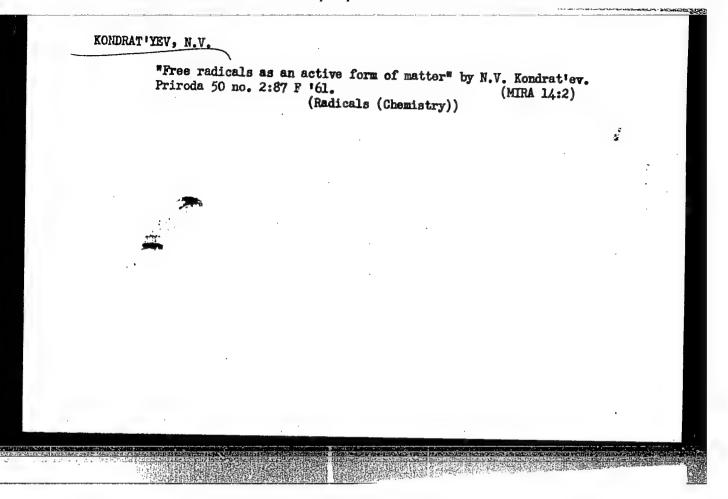


MONIDRAT'THY, H.V., insh.; FEL'DBLYUM, B.I., inzh.

Effective measures for preventing crane accidents. Bezop.truda v prom. 1 no.10:27-28 0 '57.

1. Ealashinskiy savod Eo. 24 (for Londrat'yev). 2. Upravleniye TSentral'nogo okruga Gosgortekhnadsora SSSR.

(Cranes, derricks, etc.) (Machinery-Safety appliances)



KONDRAT'YEV, N. Ya.

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

PHASE I

BOOK

Author: KONDRAT'YEV, N. YA.

Full Title: ASTRONOMY IN AVIATION Transliterated Title: Astronomiya v aviatsii

Publishing Data

Publishing House: Military Publishing House of the War Ministry

of USSR

No. pp.: 128

No. of copies: Not given

AID 372 - I

Date: 1952

Editorial Staff

Tech. Ed.: None

Call No.: AF537692

Editor: None Editor-in-Chief: None Appraiser: None

Text Data

Coverage:

The book covers the subject of aviation astronomy in popular form. Its object is to show the basic technique of determining astronomically the time, the position, and the course of an airplane in flight. Principal aeronautical instruments are described. 62 graphs and photopictures with 10 tables and several examples and forms in the text and in the appendices are given.

The book has a narrative and descriptive character, and

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does not go deeply into the subject. Nothing not already known seems to be brought out, but of some interest are the graphs, inserted in appendices 7, 8, 9 and 10, mentioned in the Table of Contents

	mentioned in the Table of Contents.	
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1.	Celestial Sphere	9-32
	Stellar sky. Solar system. Celestial coordinates. Revolution of the celestial sphere. Sun's annual path in the celestial sphere. Flight stellar chart.	<i>y</i>
2.	Time	22 53
	Measurement of time. Computation of local time for different places. Correction of the time. Tables and graphs of the sun, tables of the moon.	33-51
3.	Determination of the Position of the Airplane (in flight) Circles of equal altitudes of a celestial body. Methods of determining the position lines and the position of the airplane. Astronomical tables. Aviation sextant and its use. Correction of measured altitudes of celestial bodies.	52-78
4.	Determination of the Flight-Course of an Airplane	79-86

Astronomiya v aviatsii

AID 372 - I

9-10. Graphs for the first and second halves of the year for determination of the moments of daybreak and nightfall (inserts)

PAGES

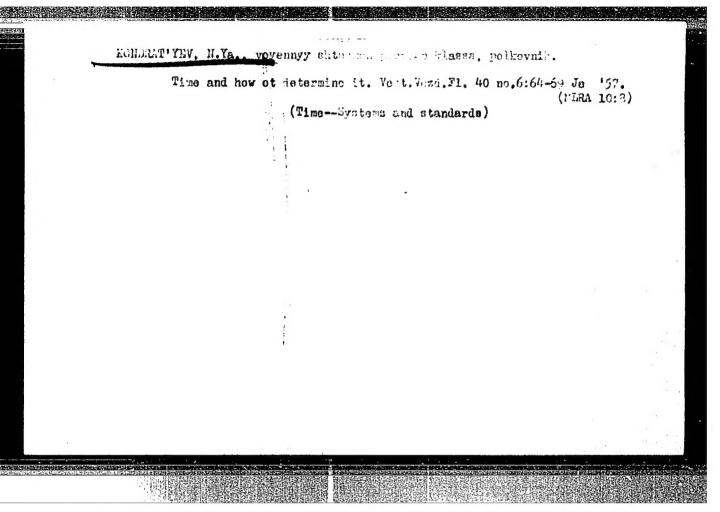
Literature

Purpose: To popularize aeronatuical astronomy and for the use of 127 students of summer courses of aviation in the army

Facilities: Several names of astronomers and aviators who have

made contributions to aviation are cited. No. of Russian and Slavic References: Nine after 1939 Available: A.I.D., Library of Congress.

4/4



1(1); 20(1, 5)

PHASE I BOOK EXPLOITATION

SOV/3454

Kondrat'yev, Nikolay Yakovlevich

Astronomiya v aviatsii (Astronomy in Aviation) 2d ed., rev. and enl. Moscow, Voyen. izd-vo Min. oborony SSSR, 1959. 221 p. No. of copies printed not given.

Ed.: I. M. Medvedev, Guard Lt.-Col.; Tech. Ed.: Ye. K. Kochovalova

PURPOSE: This book is intended for students at aviation schools and institutes; members of aviation clubs; members of the Armed Forces, Civil Aviation, and DOSAAF (All-Union Voluntary Society for the Promotion of the Army, Aviation, and Navy); and the general reader.

COVERAGE: The book outlines the basic principles of astronomical navigation and covers briefly the subjects of descriptive and spherical astronomy. Foundations of astro-navigation, including the directions of points on the celestial sphere, certain aspects of time and its measurement, and navigational instruments are the main topics discussed. Problems of automatic navigation and space flights are also treated with particular emphasis on the development

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of radio navigational aids. There are 6 inserts, 119 figures, and numerous tables included in the taxt. No personalities are mentioned. No references are given.

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8. Sidereal Heavens (a map)	insert
9. Chart for Determining the Time of Sunrise and Sunset (the First	
Half of the Year)	insert
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Astronomy in Aviation

10. Chart for Determining the Time of Sunrise and Sunset (the Second Half of the Year)

11. Chart for Determining the Time of Evening and Morning Twilights (the First Half of the Year)

12. Chart for Determining the Time of Evening and Morning Twilights (the Second Half of the Year)

AVAILABLE: Library of Congress (TL586.K575)

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